

U.S.S. LARDNER

TORPEDO BOAT DESTROYER NO. 286.

BOOKLET OF GENERAL PLANS

NUMBER AND ORDER OF PLANS GENERAL INFORMATION AND DATA OUTBOARD PROFILE INBOARD PROFILE BRIDGE & DECK HOUSES. 5 MAIN DECK 6 PLATFORM DECK. 8 CROSS SECTIONS

PLACE	DATE.	CONSTRUCTION OFFICER
QUINCY, MASS.	SEPT. 27, 1920.	Bleever
BOSTON MASS	Nov. 28-1921	E. Elleberg
NORFOLK	FEB. 26,1926	7 BRIEFE
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GEREL OF THINTENDING CONSTRUCTOR WINGY MACH WES 2 8 1920 REMOTHECTOR O NO. 42 FORENCE STANLETTEN 21-2-D 1111 Ans WINDING CONSTRUCTOR

DESTROYER 170. 286

U.S. TORPEDO BOAT DESTROYERS NOS. 251-295

GENERAL INFORMATION	
LENGTH BETWEEN PERPENDICULARS (F.P. AND STA. 40)	310-0
PROJECTION FORD OF F.P.	3-0
PROJECTION AFT OF STA. 40	1-4
LENGTH OVER ALL	
LENGTH ON D.W.L.	310-1
LENGTH OF STRAIGHT KEEL (FR.7 TO FR. 153)	
BREADTH- MOLDED EXTREME	30-1
BREADTH - EXTREME OVER GUARDS	
BREADTH- MOLDED AT TRIAL W.L.	30-1
RATIO- LENGTH TO BEAM	10.
DRAFT- DESIGNERS W.L.TO BOTTOM OF KEEL	9-
DISPLACEMENT TO D.W.L. IN TONS	125
DEPTH- MOLDED MAIN DK. AT SIDE, FR. 88 (1-0" FORD OF M.	P)20
DISPLACEMENT - TONS PER INCH AT 9: 5 DRAFT	15
AREA MIDSHIP SECTION TO DWL. 9'3" IN SQ. FT.	2
AREA- DIVIL PLANE	
AREA- WETTED SURFACE TO 9-5 W.L.	10,54

C.B. AFT OF FR.88	1-9/8
C.G.OF D.W.L. PLANE AFT OF FR. 88 (WHICH IS 12" FORD OF M.P.)	6-413/10
TRANSVERSE METACENTRE ABOVE C.G * LONGITUDINAL METACENTR	
COEFFICIENT OF FINENESS, BLOCK	
MID-SECTION	.756
	686
" " CYLINDRICAL	.624
RUDDER AXIS FORD OF STA.40	6-4/2
NO. OF FRAMES - SPACING 21"	177
NO. OF W.T. COMPTS.	
SHAFT STRUTS FORD OF A.P.	21.3
SHAFTS INCLINE DOWN AND AFT. P&S.	3°- 33'- 14"
SHAFTS DIVERGE FROM & OF SHIP P. &S.	20-42.33"
& OF SHAFT FROM & OF SHIP AT FR.99	2'-7"
138	
ABOVE MOLDED BASE AT FR. 99	
138	6-2"
PROPELLERS, TWO 3 BLADED	DIA9'-0"
PITCH	9-11"
EXPANDED AREA IN SQ. FT.	44.9
PROJECTED " " "	37.8
# topin or a m	17'0

(.88)	1-9/8
LANE AFT OF FR. 88 (WHICH IS 12" FORD OF M.P.)	
ETACENTRE ABOVE C.G * LONGITUDINAL METACENTRE	
OF FINENESS, BLOCK	.477
" MID-SECTION	.758
" D.W.L.	. 686
" CYLINDRICAL	.624
FORD OF STA.40	6-4/2
5- SPACING 21"	177
MPTS.	
TS FORD OF A.P.	21.3"
NE DOWN AND AFT. P&S.	_ 3°- 33'- 14"
RGE FROM & OF SHIP P.&S.	20-42.33"
ROM & OF SHIP AT FR.99	
<u> </u>	5-11"
BOVE MOLDED BASE AT FR. 99	
	6-2"
TWO 3 BLADEDD	IA9'-0"
PITCH	9-11"
EXPANDED AREA IN SQ. FT.	44.9
	270

TURBINES MAIN PROPELLING MACHINERY THERE ARE TWO PROPELLING SHAFTS AND PROPELLERS, EACH DRIVEN THRU A REDUCTION GEAR BY ONE HIGH PRESSURE, INTERMEDIATE PRESSURE AND LOW PRESSURE HIGH SPEED CURTIS TURBINES. THE TURBINES DRIVING THE STARBOARD PROPELLER ARE LOCATED IN THE AFTER ENGINE ROOM, THOSE FOR THE PORT PROPELLER IN THE FORD ENGINE ROOM. THE HIGH PRESSURE AND INTERMEDIATE PRESSURE TURBINES ARE ARRANCED INTANDEM AND CONNECTED DIRECTLY TO THE OUTBOARD PINION OF EACH REDUCTION GEAR AND THE LOW

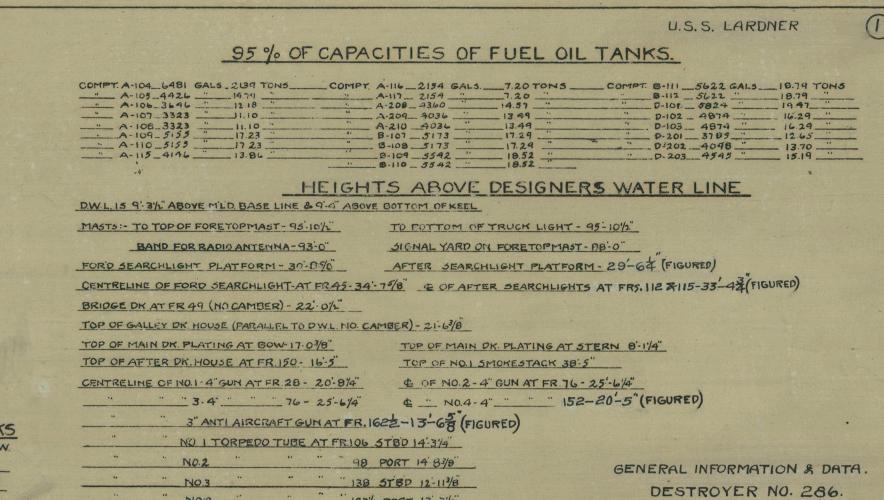
GEAR WHICH IS COUPLED DIRECTLY TO	THE LINE SHAFT
R.P.M.	
H.P. AND I.P. TURBINES	32.00
L.P. TURBINES	3000
PROPELLERS	452
S.H.P. TOTAL	27.000

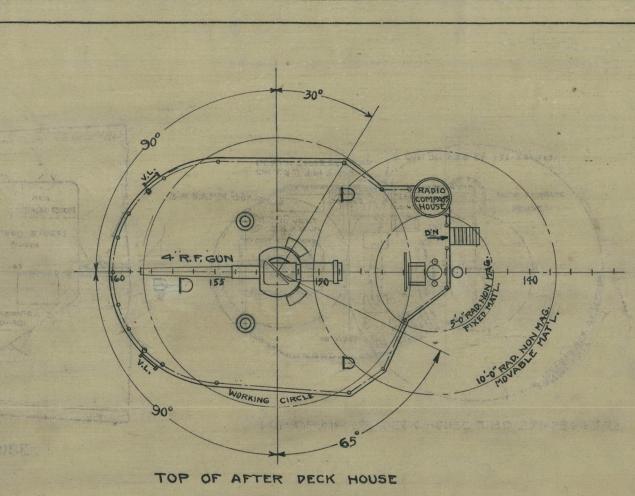
CONDENSERS. TWO CONDENSERS CURVED TUBE TYPE

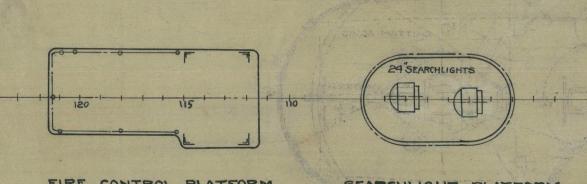
TOTAL HEATING SURFACE SQ.FT. 27,540 NO. OF OIL BURNERS (12 PER BOILER) 48 FOUR FUNNELS HEIGHT ABOVE KEEL (AVERAGE) 47.9" BATTERY 4-4" GUNS MARK IX MOUNT MARK XII NO.1_MAIN DK._ FR. 28_ & __TRAIN 90° FORD 65° AFT P&S TOP OF GALLEY NO.2 DECK HOUSE __ FR. 76_ PORT__TRAIN 87/2 FORD 85° AFT PORT

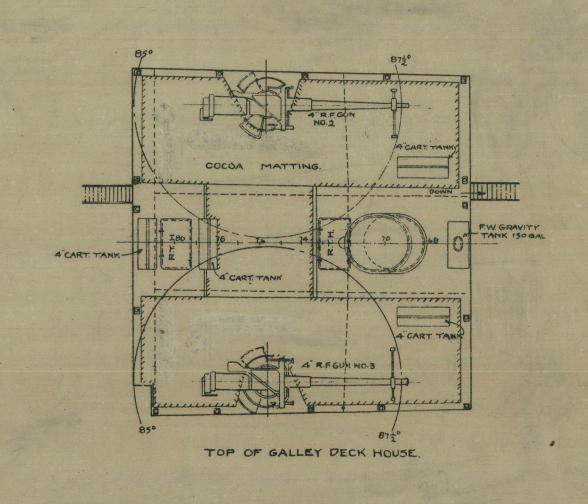
NO.4 TOP OF AFTER FR. 152 4 TRAIN	87/2° FORD 90° AFT 90° AFT	30° FRD. 65° FRD	PORT
1-3" GUN ANTI AIRCRAFT			
MINE CONTRACTOR TO SELECTION			
PETER DESIGNATION AND A PROPERTY AND			
4-6.8 M X 21" TRIPLE TORPEDO	TUBES	-DECH	<
NO.1_MAIN DECK_FR. 98_PORT_T	RAIN 60°	FORD 6	OOAF

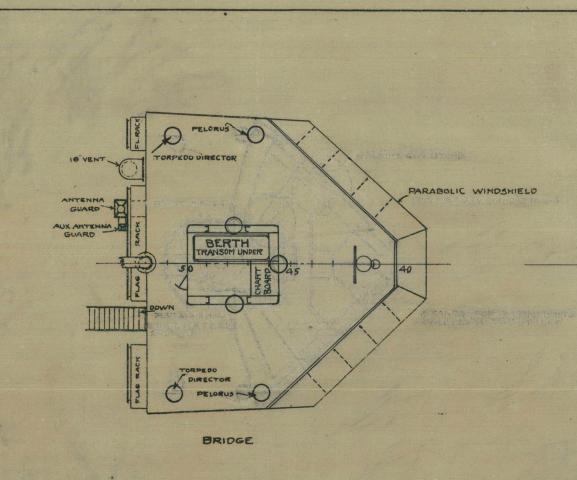
COMPLEM	ENT		
I COMMANDING OFFICER			
6 WARDROOM OFFICERS		CREW	106
12 CHIEF PETTY OFFICERS	TOTAL	ON BOARD	125
LIST OF B	DATS		
1-24 MOTOR SAILING LAUNCH	THE REAL PROPERTY AND PERSONS ASSESSED.	OF MEN_	10
1- 24 WHALE BOAT			2
1-21 MOTOR DORY			10
1-21 FIDIOR DUNI			
1-10' PUNT		ER TA	
	OF WAT	LA PRIMA DESIGNATION WORKINGS OF	NKS
1-10, PUNT 1-14, WHERRY CAPACITIES	OF WAT	TONS F.W	NK5
I- 10' PUNT 1- 14' WHERRY CAPACITIES FRESH WATER TANK_ B-103_4 B-104_4	OF WAT	TONS F.W	NK5
1-10, PUNT 1-14, WHERRY CAPACITIES FRESH WATER TANK_B-103_4	OF WAT	TONS F.W	NKS 14.9 14.9 25.
FRESH WATER TANK B-103 4 RESERVE FEED C-101 6	OF WAT 015 GALS 015 _" 672 _" 497	TONS F.W	NKS
I-10, PUNT 1-14' WHERRY CAPACITIES FRESH WATER TANK B-103 4 B-104 A-118 4 B-105	OF WAT 015 GAL5	TONS F.W	NKS (
- 10, PUNT - 14, WHERRY CAPACITIES	OF WAT 015 GALS 015 _" 072 _" 497 _" 431 _"	TONS F.W	NKS (14.9 25
I-10, PUNT I-14, WHERRY CAPACITIES FRESH WATER TANK B-103 4 B-104 A-118 4 B-105	OF WAT 015 GALS	TONS F.W	NKS

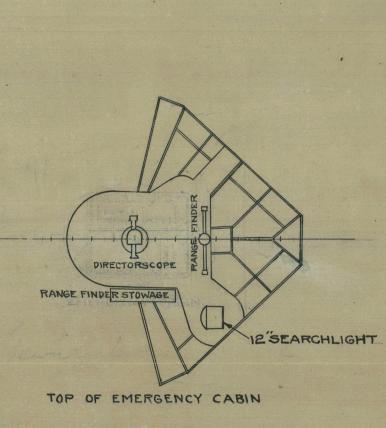












BRIDGES DESTROYER 170. 286

U.S.S. LARDNER

